

ABSTRACT OF THE DISCLOSURE

The image processing apparatus changes a hair style of hairs which are expressed by computer graphics ("CG"), so as to correspond to a number of different head part shapes. The apparatus includes: a three-dimensional head part reconstruction processing section for synthesizing three-dimensional shape data of a face part inputted from an image pickup device with three-dimensional shape data of a head part read out from a head-part database, to construct a three-dimensional shape model of the neck part; a hair-style mapping processing section for mapping hair data read out from a hair-style database on the three-dimensional shape model of the neck part; and a rendering section for rendering the three-dimensional shape model of the neck part on which the hair-style data is mapped, to generate hair-style-matched image data. The hair-style database stores a number of pieces of hair-style data.

In the Claims:

Please amend Claims 1, 5-11, 15-21, and 25-30 as follows:

1. (Once amended) An image processing apparatus for synthesizing a hair image with a three-dimensional shape image of a head part, to generate a hair-style-matched image, comprising:

a storage part for storing a hair-style data piece constructed by a plurality of hair data pieces arranged on a two-dimensional array;

a read out part for reading out the hair-style data piece stored in the storage part;

a mapping part for mapping the hair data piece corresponding to a hair contained in the hair-style data piece read out by the read out part, at a predetermined position on the three-dimensional shape image of the head part; and

a generation part for generating the hair-style-matched image, based on a mapping result obtained by the mapping part.

5. (Once amended) The image processing apparatus according to claim 1, wherein the storage part stores the hair-style data piece constructed with a plurality of data pieces arranged on a two-dimensional array corresponding to a projected image obtained by projecting a three-dimensional hair style expressed by a columnar coordinate system on a two-dimensional coordinate system.